

Agricultural Development Council, Inc.

The Council on Economic and Cultural Affairs, Inc., was founded in 1953 by John D. Rockefeller 3rd. It was incorporated as a private nonprofit organization under the laws of the State of New York.

In 1963 the name was changed to the Agricultural Development Council, Inc., but the purposes remain unchanged from those stated in its original Certificate of Incorporation. In broad terms these are "charitable, scientific and educational and are designed to stimulate and support economic and related activities important to human welfare."

The Council from its beginning has committed a major part of its resources and its staff to training and research activities in social science fields. These activities follow both formal and informal patterns. The single aim is to strengthen professional capacity to deal with the economic and human problems of agricultural and rural development in Asia.

It draws its basic financial support from Mr. Rockefeller and the Rockefeller Brothers Fund. In addition, specific projects of the Council are currently supported by the Ford Foundation, the Agency for International Development, the International Development Research Centre of Canada, and the Australian Development Assistance Bureau.

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**Resigned December 31, 1977*



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**Effective January 1, 1978*

***Resigned December 31, 1977*

**** Resigned June 30, 1977*

Staff Activities



William M. Bateson



Hans P. Binswanger

William M. Bateson

The Council, under Dr. Bateson's direction, continued its expanded program of work in Nepal. It entered the second of a five-year research and training program undertaken jointly with His Majesty's Government and the U.S. Agency for International Development.

Bateson spent considerable time identifying and working with prospective fellowship grantees. Under the terms of the project there is a major emphasis on training. Graduate training at the M.S. and Ph.D. level will be supported at institutions outside the country; non-degree short-term training will be supported in-country and elsewhere in Asia. There were at the end of the year twelve Nepalese studying at the Master's level at five universities in Asia and Australia; three were active in Ph.D. programs in the U.S.

Research activities were initiated in the area of research productivity and production constraints. Three interim research reports were completed and data is at hand for fuller examination as processing equipment becomes operational, chiefly a programmable computer which has been acquired for the project.

As with any project involving government and non-government sponsors and participants, there are problems which over time are being resolved. These relate to the selection of trainees, the identification of short-term training alternatives, the formulation and management of research activities, and inter-institutional relationships.

In December, Dr. Bateson and family completed their Nepal assignment and relocated for a reassignment period at the University of Wisconsin at Madison. As an Honorary Fellow in the Department of Economics, Bateson will give primary attention to writing and preparing for publication several Nepal studies. These bear on the economics of pond fisheries and farmer practices related to the adoption of new agricultural technology. He also plans to continue work on a family of rural economy models with special reference to the new household economics and constraints imposed in the Nepal hill region.

Hans P. Binswanger

During his third year in India, Hans Binswanger continued to be associated with the International Crops Research Institute for the Semi-Arid Tropics in Hyderabad.

He completed two research projects. In the first project on the economics of tractors in South Asia, he reviewed and compared thirty survey-based studies of the effects of tractors on agricultural productivity, and employment. These cover over 3,000 farms in all major agroclimatic zones. In this review, he finds virtually no support for the hypotheses that tractorization leads to higher yields or higher cropping intensities. Where yields or outputs on tractorized farms are higher than on bullock farms, this is associated with substantially higher inputs of fertilizer and other cash inputs and cannot be attributed to the tractors.

In his studies on the role of risk in agriculture, Binswanger moved from survey methods to experimental methods to elicit attitudes towards risk. The experiments consist of a game in which respondents choose among a set of alternatives which vary in their extent of riskiness. Each alternative has an unfavorable and a favorable money outcome. The outcome is decided by a toss of a coin. The alternative chosen classifies the individual into a risk aversion class. While this idea is old, Binswanger's experiment involved a large number of respondents (over 350) and actual payouts of money which went as high as 50 times the daily wages for unskilled labor. The results indicate that at high game levels virtually all respondents are substantially risk averse but almost none are extremely risk averse. The risk attitudes are highly concentrated on intermediate and moderate risk aversion levels and seem to be little influenced by wealth levels or other household characteristics.

Starting in 1978, Binswanger will coordinate for the Council a set of research studies financed by USAID on the impact of mechanization on agriculture in Asia. Special emphasis will be placed on small scale mechanization and other previously unexplored issues in this field.



Veit Burger



Edward J. Clay

Veit Burger

Veit Burger arrived in Nepal in September 1977 on a two-year assignment as Research Specialist in the Ministry of Food, Agriculture and Irrigation and its related Agricultural Projects Services Centre (APROSC). As a graduate student at Cornell University Burger conducted thesis research in Nepal in 1974-75.

His assignment is made possible by a grant from USAID to enable the Council to expand its contribution to training and to socio-economic research which is designed to complement ongoing agricultural research.

Since his arrival, Burger's main occupation was to get involved with ongoing A/D/C assisted research projects which were initiated during the year. Although preliminary analysis has been done, limited resurveys will be carried out to check on data accuracy and to gain insights on methodologies of data collection and means of improving them. Of major concern is the reduction in or elimination of non-sampling errors. With the installation and operation of APROSC's new data processing equipment more detailed analysis of the collected data will be possible. This activity will permit a considerable involvement of Dr. Burger in the training of Nepalese colleagues in data handling and analysis, and in computer programming. Although the education system is turning out an increasing number of students in the social sciences, Burger is concerned about their lack of practical research experience and the limited guidance they are offered in their research.

At the request of the Research Section of the Ministry, he assisted in the conceptualisation stage of a project to evaluate the performance of Nepal's agricultural research farms and stations. He is presently engaged in preparation of an agricultural data bank which should provide simple and rapid access to time series data presently collected and published by various government agencies.

Edward J. Clay

This has been the third year for Edward Clay as the first A/D/C Associate in Bangladesh. Part of his efforts have been directed to the development of a Scholarship Program. Four Bangladeshis went for training to the Philippines and eight new fellows were selected in 1977 for further studies in Australia, India, Philippines and the United States. The range of disciplines covered by awards included anthropology, community development, agricultural extension, economics, sociology and social work.

Clay has continued with agricultural economic research including a project on deep-water rice involving the first systematic crop-cuts and agro-economic studies of this previously little studied crop. Results of this collaborative study with agricultural scientists will be available in early 1978. Dr. Clay and a Bangladeshi colleague also undertook a review of the agricultural employment prospects in Bangladesh for the next decade, as part of a series of joint Government of Bangladesh — FAO/UNDP agricultural policy and planning studies in April and May. Involvement in planning exercises has been a major activity for Dr. Clay in 1977, working as advisor on rural social sciences at the Bangladesh Agricultural Research Council (BARC). At the BARC Dr. Clay has edited the first four of a new series of social science publications including a Bibliography of Agricultural Economics and Rural Social Sciences with Special Reference to Bangladesh which he compiled.

Dr. Clay has been actively involved as Chairman of the Executive Committee of the Association of Agricultural Agencies in Bangladesh (ADAB) which acts as a documentation center and disseminates information including a monthly Newsletter to non-government agencies working in agriculture. At the end of 1977 it was jointly agreed with the Government that the A/D/C program in Bangladesh would continue with Ford Foundation support for another three years.



William L. Collier



Robert E. Evenson

William L. Collier

Upon returning to Bogor from a reassignment year at the University of Hawaii, Dr. Collier assisted Prof. Sajogyo in teaching the Research Methodology Course in the Agricultural Economics graduate program at the Bogor Agricultural University. Its purposes were to teach the students the steps in the research process, to help them conduct individual survey research, and to instruct them in the development of their M.S. thesis proposals. Collier also assisted the students in developing their theses.

During the year Collier visited most of the universities and research institutions in Java and gave seminars on agricultural evolution in Java, and the economics of fisheries. He assisted Dr. Aida Librero in preparing for the second biennial meeting of the Agricultural Economics Society of South East Asia which focused on the economics of fisheries in Asia. He presented a paper on "Economic Development and Shared Poverty Among Javanese Sea Fishermen."

To launch A/D/C's regional program on Resource Use and Management in the Coastal Zones of the Asian Humid Tropics, he organized a preparatory meeting of scholars interested in research and training on this topic. The meeting resulted in a detailed program consisting of meetings, preparation of studies, and research.

In cooperation with Dr. Rudolf Sinaga, he helped to develop plans for the Rural Dynamics Study to expand its coverage to East and Central Java. A proposal has been prepared and submitted to international donors to help fund this study.

Cooperating with universities in East and Central Java, Dr. Collier helped researchers develop and conduct studies on upland and coastal villages in East Java, and on brackish water pond cultivation in Central Java. He assisted in developing a study on the economic potential of coastal swamps in Sumatra in cooperation with the Center for Natural Resource Management and Environmental Studies at the Bogor Agricultural University.

Robert E. Evenson

Dr. Evenson's major activity during the first half of the year was the Laguna Household Resurvey. The original Laguna Survey undertaken in 1975 covered 576 rural households. The Resurvey had two components: 1) a resurvey of 240 of the original 576 households, 2) a resurvey of approximately 600 households initially surveyed in the UP-FHDO (Farm and Home Development Office) survey of 1963. The Resurvey results have been computerized and will serve as the basis for two or possibly three Ph.D. dissertations.

Evenson and colleagues at UPLB organized a Symposium on Household Economics in late May to bring together Philippine works in this field. Eight of the twelve major papers presented at the conference were produced as part of the Laguna Survey. The proceedings are to be published in a special issue of the *Philippine Economic Journal*. The Symposium introduced a number of people in the Philippines to a new field of inquiry and may have broadened the perspective of more traditional agricultural economists.

Evenson participated in the newly established Summer Program in Economics conducted at the UPLB campus. This new program, designed on the model of the Economics Institute held each summer at Boulder, Colorado, aimed to provide upgrading courses to incoming graduate students in such areas as economic theory, math and statistics. The program was quite successful and will be conducted again in 1978. As part of this program, Evenson taught a mini-course on household economics involving twenty students.

During the last two weeks of May, Mrs. Evenson joined a group of wives of agricultural scientists for a trip to China. Upon her return to Manila, the Evensons departed for Canberra where they spent three months at the Development Studies Center of Australian National University.

In late August Evenson returned to Yale University to assume a professorship in the Economics Department and the Economic Growth Center.



Max R. Langham



Shao-er Ong

Max R. Langham

Dr. Langham moved from his position as Research Officer in the Regional Research and Training Program in late May to become Associate for the Philippines and visiting professor in the Department of Agricultural Economics, University of the Philippines at Los Banos (UPLB).

During the first semester, Langham taught mathematical programming in the UPLB graduate program and commuted to the School of Economics at U.P. Diliman to offer a course in economic statistics to a class of 54 new graduate students. He spent considerable time discussing research plans and methods with individual graduate students on both campuses.

Langham was pleased with the general quality of graduate students he found in the Philippines and was impressed by the number of students from other Asian countries and from the U.S. who are doing graduate work in economics and agricultural economics in the Philippines. Also, the University of the Philippines in cooperation with the Philippine Council for Agricultural Resources and Research (PCARR), SEARCA, and The International Rice Research Institute has taken leadership in regional graduate education programs in agriculture and the rural social sciences.

While in the Philippines, Langham coordinated the second regional seminar on agricultural sector analysis (see P. 11). The seminar brought together forty participants from various agencies and universities in eight Asian countries, the U.S., and Germany. The focus was on intra and inter-sector linkages, and concluded with a session on international cooperation for agricultural sector analysis.

Langham returned to the University of Florida in late December. He was replaced by Dr. James A. Roumasset of the Economics Department of the University of Hawaii.

Shao-er Ong

After completing a reassignment year at Michigan State University in the Department of Agricultural Economics, Dr. Ong returned to Bangkok in July to resume his work as Associate for Thailand. While at Michigan State he organized a workshop on the Teaching of Farm Management and later prepared and circulated three reports: Part I consisting of a summary report and contributed papers; Part II, course outlines and references; Part III, laboratory exercise problems. Under the auspices of the Regional Research and Training Program, Dr. Ong and Dr. Tan Bock Thiam of the University of Malaya prepared a volume of *Asian Farm Management Readings*, scheduled for publication in 1978. This volume and the three Reports mentioned above will serve as background for a subsequent Workshop on the Teaching of Farm Management in Asia scheduled for June, 1978.

Dr. Ong was also active, along with Dr. John Wong of Singapore University, in the organization of a Seminar on Group Farming in Asia, held in Singapore in August. (See P. 10)

Dr. Ong cooperated with the organizers of the Second National Home Economics Seminar, sponsored by the Home Economics Department of Kasetsart University and helped in the editing of a report, "The Role of Home Economists in National Development." He also participated in a Seminar organized by Kasetsart University on planning and implementing a Ph.D. program. Also at Kasetsart, Dr. Ong and the Council assisted in a Seminar for prospective teachers of agribusiness management. The forty-five participants included teachers from agricultural vocational schools and colleges, staff of the K.U. Agribusiness Department, and representatives from the Ministry of Education and the Institute of Agricultural Technology at Chiangmai.

A paper of Ong's, "Taiwan Reconstructing Strategies for Small Farm Development," was published in the September issue of the Korean Journal of Agricultural Economics. His paper on "Institutional Credit for Small Farmers" was presented at a Seminar on Credit Policy and Programs in Thailand.



C. Geoffrey Swenson



Donald C. Taylor

C. Geoffrey Swenson

Dr. Swenson continued his assignment as a Visiting Professor in the Sosek Department of the Institut Pertanian Bogor. His major duty in the Department has been teaching and advising students in the Master's degree program, now in its third year.

He devoted time, along with Indonesian colleagues, to further study of income and employment in the village Bojong. A second survey was completed, and will be followed by more detailed analysis. He also prepared a draft report on the evaluation of the Sosek Department with a view to aiding in further program development related to curriculum, staff, and research.

Swenson spent considerable time with the administration of the Supplemental Program in the Rural Social Sciences (SPRSS). During the year most of the continuing activities of SPRSS were absorbed within the new Indonesian foundation (Yayasan Ilmu-Ilmu Sosial). SPRSS funds, provided by the Ford Foundation, are being utilized to continue the support of the remaining group of students who are in graduate programs at locations in Asia, Australia and the U.S. These are individuals who have support from other donors but receive supplemental support from SPRSS. At the end of the year there were eight students in this group.

The SPRSS program also continued the support of Mr. and Mrs. Johannes Palte in their work as visiting professors at Brawijaya University in Malang. The Palte's have made an important contribution to the teaching and research program at Brawijaya University in the field of economic and social geography and rural sociology.

In September, Dr. Swenson and his wife, Aida, moved to Cornell University where Dr. Swenson began a reassignment year as a visiting scholar in the Department of Agricultural Economics. Swenson is giving major attention to a review of the SPRSS program and writing up material from the Bojong study.

Donald C. Taylor

When Taylor's reassignment year at the University of Wisconsin concluded in May, he resumed his work as the country Associate in Malaysia and continued his work with the Asian Regional Irrigation Communication Network.

Taylor is headquartered in the Resource Economics and Agribusiness Faculty of the Malaysian Agricultural University. During these early years of its existence, the Faculty is emphasizing the development of its undergraduate program and related research and service functions. His teaching is aimed at helping students develop basic research skills for use in undertaking their final year project papers. He also has primary responsibility for the Faculty's irrigation management and water resource development component.

Taylor accompanied students and staff on several field trips to various agricultural development projects in the country and helped to identify and develop relevant applied research.

A main activity of the Regional Irrigation Communication Network is assembling materials for distribution through a newsletter which is now in its third year. The first six issues of the Newsletter have provided summary information on 65 on-going research projects and 350 articles and other publications on irrigation in the region. It has also drawn attention to courses on irrigation and water resources development being offered in the region, seminars and workshops on irrigation, and a variety of other material submitted by some 575 researchers and irrigation practitioners who comprise the Network.

Taylor and Tom Wickham of IRRI edited papers presented at the June 1976 Seminar on Irrigation Management and Policy in Southeast Asia. This publication will be available soon.

Taylor's research on Indonesian irrigation currently emphasizes the relation between irrigation water management and agricultural performance. In December, he and some of his colleagues were invited by Indonesia's Directorate General of Water Resources Development to lead a national seminar on water management focusing on the results of their research.



Nancy E. Waxler



Benjamin N. F. White

Nancy E. Waxler

The Post-Graduate Institute of Agriculture at Peradeniya opened in mid-1976. One part of the new curriculum in agricultural economics and extension are courses in rural sociology and individual/social psychology, both of which Dr. Waxler developed and taught to post-grad students who have been working for a number of years in the field as extension officers, agriculture teachers, etc.

She has also been involved with two agricultural research projects. One is a study of farm management and productivity under three irrigation conditions in the Dry Zone. One of these areas is served by the new Mahaweli scheme which provides guaranteed water for both farming seasons. Another project examines the causes of school-leaving and the relationship between educational level and agricultural development in typical Sinhalese villages, new colonization schemes and among the urban poor.

Half of her time in 1977 was spent as Visiting Lecturer in the Sociology Department at the University in Peradeniya where Dr. Waxler planned and taught two new courses, culture and personality and social psychology. The latter included a student-run research project, an innovation for that Department.

Dr. Waxler has continued work on medical sociological research. Her major concern is with the ways cultural beliefs and practices influence and perhaps mold the careers of sick people. Data from her study of psychiatric patients in Sri Lankan villages show that the outcome for schizophrenia is much better here than in comparable Western samples and is thus consistent with a much larger WHO study of nine cultures that reports better outcomes for schizophrenia in the less developed countries. In the past year she finished theoretical and empirical papers on the Sri Lankan case, attempting to link aspects of culture and social structure to patient career. In a related study, she investigated the social processing of leprosy patients and the expectations that Sri Lankan society has for lepers.

Benjamin N. F. White

Benjamin White continued his work as Participating Consultant to the Indonesian Agro-Economic Survey's Rural Dynamics Study project. The RDS is a long-term, policy-oriented study of rural change, concentrating on the three main topics of rural production systems, employment and income distribution, and rural institutions.

The first part of the RDS in the Cimanuk River Basin, West Java is now entering its third year. Household surveys are carried out twice yearly in a sample of 6 villages, and in 1977 increasing emphasis has been placed on the use of more anthropological techniques of case-study, informal interviews and participant-observation to complement routine survey-research and achieve a more comprehensive understanding of "rural dynamics." During 1978, a major effort will be required to ensure that analysis and report-writing keep pace with the rapid accumulation of data. A series of 12 reports based on the first two rounds of field research is under preparation to be completed by mid-1978.

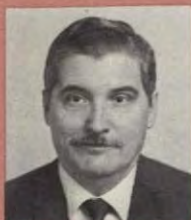
In late 1977, data-collection began for a special study of "Rural Household Economies and the Role of Women" which is being carried out jointly by the Rural Dynamics team and the Institute of Rural Sociological Research, Bogor Agricultural University.

In December, White joined a team of agricultural economists and anthropologists from the Rural Dynamics Study and Udayana University, Denpasar in a study of the impact of agricultural mechanization on employment and income distribution in rural Bali.

Preparations are underway for a second Rural Dynamics research project in East Java and Bali, a project that will be conducted by members of the AES in cooperation with three local universities, and with a joint emphasis on policy-oriented research combined with practical training in research methods.

White participated as Guest Lecturer in the Indonesia Development Studies Program at the Faculty of Social Sciences, University of Indonesia, and at a training workshop on the Value of Children at Gadjah Mada University, Yogyakarta.

Regional Research and Training Program



Ralph H. Retzlaff

The specific objectives of the Regional Research and Training Program are to support the training, and improve the research capabilities of young scholars and mid-career professionals in both academic and government institutions; to increase the opportunity for research on crucial problems by scholars of the region; and to make available material relevant to the region for use in teaching and research. It seeks to accomplish these objectives through five interrelated activities. These include (1) sponsoring seminars and workshops on topics identified as important by scholars within the region; (2) a program of small research grants to young pre- and post-doctoral students; (3) the support of Asian scholars as Visiting Professors at institutions within the region; (4) a publication program of materials relevant for teaching and research; and, (5) a fellowship program which supports degree training at institutions within the Asian region, including Australia.

The RRT Program is funded in part by grants from the International Development Research Centre, Canada, the Australian Development Assistance Bureau and by Council funds from its core budget.

SEMINARS AND WORKSHOPS

Six activities were organized under the seminar and workshop program. This, and the support of persons in two other seminars provided opportunities for more than two hundred and fifty individuals to meet and discuss research results on a wide variety of topics. These activities were organized in collaboration with professional organizations or research and teaching institutions within the Asian region. In most cases, they were developed with the assistance of one or more of the Council's staff. Collectively they involved individuals from the full spectrum of the Council's clientele — students and young professionals, teachers, researchers, staff of agencies of government, and policy-makers.

Seminar on Household Economics

The Philippines Economics Society, The Philippine Agricultural Economics Association, The Center for Policy and Development

Studies joined with the Council in sponsoring this seminar, a continuation of our earlier support to work in this field. Many of the participants who presented papers were involved in the earlier Laguna Household Survey. The seminar provided them with the opportunity to receive critical discussion of their work and, in turn, to expose the Philippine economics profession to the body of work and theory in this area. The Council assisted the Philippine Economic Association in publishing a special issue of their Journal containing the seminar proceedings.

Seminar on Research Priorities for Rural Development in East Java

East Java, with over 20 million people, derives most of its income and employment from agriculture. Thus, the development of the agricultural sector is extremely important to this highly populated area of Indonesia.

The human resources available to identify rural development problems and conduct appropriate research are very limited. The purpose of this two-day seminar was to evaluate present knowledge and experience on rural development problems in the region by bringing together staff members from universities in the area (Brawijaya University, Jember University and Airlangga University) along with provincial government officials most concerned with rural development.

The Experience and Potential for Group Farming in Asia

Almost every socialist and non-socialist country in Asia has experimented with some form of group farming. The motivation to experiment with approaches to group farming are varied. In some cases, such efforts are designed to overcome the perceived diseconomies of scale in the use of technology and in access to public services of small scale peasant farming. In some cases, the motivation is to facilitate programs of land development and resettlement. In still other cases, group farming is seen as a way of mobilizing local labor resources to facilitate community development objectives.

The two primary objectives of this seminar were to explore how the viability of group farming efforts are affected by (a) the cultural and institutional environment in which group farming projects have operated, and (b) the internal social and economic organization of the group farming enterprises. A series of case studies from East Asia, Southeast Asia and South Asia were considered. A report on the seminar is scheduled to appear in the *Teaching and Research Forum* series in 1978. In addition, a book based upon the papers presented to the seminar is scheduled for publication.

Agricultural Economics Society of South East Asia, Second Biennial Meeting, Panels on Fishery Economics

A number of countries within the Asian region have assigned a high priority to the development of both capture and culture fisheries. In cooperation with the South East Asian Fisheries Development Center, the Council assisted the Agricultural Economics Society of South East Asia in bringing together research scholars from the region to participate in a series of panels on the economic analysis of various aspects of fisheries activity. The papers presented dealt with (1) Aquaculture; (2) Marine Fisheries; (3) Fisheries Policy; (4) Marketing and Institutions; and, (5) Pollution Aspects and Coastal Zone Resource Use Management. The proceedings are to be published by AESSEA.

Workshop on Coastal Zone Management

The A/D/C sponsored an organizing committee meeting of experts interested in problems related to coastal zone management to develop a research network in that area. The participants contended that development hopes of the future must focus on intensified use of the combination of resources on which villages in specific geographic and environmental situations are dependent with attention to production activities that do not receive sufficient attention in government intensification programs.

At the same time, governments in Asia, if not actively promoting, are at least not

restraining local residents' activities to expand cultivation where that can result in a major disruption of sensitive tropical ecosystems. An important need exists to search for alternative development approaches that manage the complete range of resources found in specific ecological systems.

The coastal zone is perhaps the most significant geographic unit for developing these multiple-use resource strategies. The purpose of this research network is to encourage development experts, policy-makers and administrators in national governments and international organizations to be more aware of the potential, and fragility, of the coastal zone. Emphasis will be placed on the densely populated coastal zones that are being intensively exploited and on the coastal zones and related inshore waters which have yet to be fully utilized, e.g., coastal, fresh, and brackish water swamps.

A series of studies which will summarize and evaluate existing findings has been initiated; their results are to be discussed at a seminar scheduled for 1978.

Regional Seminar No. 2 on Agricultural Sector Analysis

The first regional seminar on agricultural sector analysis (ASA) held in November 1976 was devoted to an exchange of information about programs in various countries in East and Southeast Asia, and confronted some of the general issues in Asia.

During that seminar, ASA was criticized for having too much of a commercial (market oriented) agricultural focus, for not giving enough attention to the employment and income distribution problems of people by region within countries, and for a lack of focus on institutional and structural change. This apparent demand for a broader focus derives from pressures on agricultural policy-makers to use their agencies to relieve the political pressures which human problems create.

However, a broader focus aggravates the already troublesome problem of linkages in ASA work. The regional impact of agricultural policies is of major concern in many countries.

Also, the forward and backward linkages of the agricultural sector with the other sectors of the economy are not well understood. As a consequence, ASA plans in all countries call for regional analysis within the agricultural sector and for the development of explicit linkages of national ASA models to models of the general economies. Theoretical and empirical perspectives on these intra- and inter-sectional linkages provided the organizing theme for this second analysis seminar.

Seminar on the Adaptation of Traditional Systems of Agriculture

This seminar organized by the Development Studies Centre of the Research School of Pacific Studies at the Australian National University brought together scholars, research workers, administrators, and agricultural planners from the governments of the Pacific island countries who have been most closely concerned with the problems of indigenous and introduced systems of agriculture in the Pacific and southeast Asian region, with particular reference to systems concerned with the cultivation of tropical root crops or their introduced competitors. The RRT supported five persons at this seminar.

Workshop on the Practical Problems of Survey Sampling

The RRT Program supported four scholars in a workshop organized in conjunction with the International Statistical Institute meetings in New Delhi. The problems participants encountered in the course of their work constituted the workshop agenda.

Research Grants

In 1977 the RRT Program made eleven awards in support of research to younger scholars within the region, and two awards to group research training projects. Potential grantees are generally identified through the ongoing activities of the RRT Program and by the A/D/C Country Associates.

The aim has been to support younger scholars both at the pre- and post-doctoral level for whom small grants ranging from \$1,500 to \$5,000 would be of assistance in the completion of dissertation research or in the initiation of a first major independent research venture.

The RRT Program does not restrict research grants to specified problem areas. Rather, grants are made to support proposals in the social sciences related to agricultural and rural development which have the potential of increasing the capacity of individuals to do quality research.

Awardees during 1977 were:

Mr. Pisit Sukreeyapong, a graduate student at Mahidol University, Thailand. Topic: "Bio-Gas Production and Its Impact on Rural Development in Thailand: An Economic and Social Analysis."

Mrs. Chayada Siripiron, a sociologist on the Faculty of Social Sciences and Humanities at Mahidol University, Thailand. Topic: "The Importance of the Family System and Household Behavior on Agricultural Production."

Dr. Vivat Shotelersuk, Rit Sirimataya, Chamnong Boochoo and Boonna Hasitpanichkul, Chiangmai University, Thailand. Topic: "The Rural Organization Prospects for Increased Crop Production: A Case Study in Factor Markets in Northern Thailand."

Mrs. Janaki Ranmuthugala, a candidate for the Ph.D. in the Department of Sociology, University of Sri Lanka, Peradeniya, Sri Lanka. Topic: "School Dropouts and Their Impact on Agricultural Development in Sri Lanka."

Mr. Ismet Ahmad of the Department of Agricultural Economics, Universitas Lambung Mangkurat, Banjarbaru, Kalimantan, Indonesia. Topic: "Business Records on Costs and Returns of the Tidal Swamp Rice Farming in South Kalimantan."

Mr. Sukartawi, an M.Sc. in Agricultural Economics, and a team of four junior staff members and five students from Brawijaya University, Malang, East Java, Indonesia. Topic: "Income, Employment and Ecological Change in Rural Villages Located in Marginal Areas of East Java."

Mr. Koesoebiono, a staff member of the Center for Natural Resource Management and Environmental Studies at the Bogor Agricultural University, Indonesia. Topic: "Economic Potential of Mangrove Swamps in Indonesia."

Mr. Ketut Sudhana Astika, a graduate student in the Department of Anthropology at the University of Indonesia, Indonesia. Topic: "The Influence of Agricultural Intensification on the Social and Economic Life of Farm Families: A Case Study in Desa Abiansemal, Bali."

Mr. Basuki Suwardo of the Faculty of Economics at the Diponegoro University, Central Java, Indonesia. Topic: "Brackish Water Fish Pond Management in Central Java, with Particular Attention to Possibilities of Increasing Income through Improvement of Managerial Ability."

Two persons who received research grants in 1976 were awarded supplements in 1977 to complete their research:

Ms. Leela Pathak of the Ministry of Food, Agriculture and Irrigation, Nepal, a supplementary grant for the completion of her Ph.D. thesis research. Topic: "Employment Generation in Nepalese Agriculture."

Mr. Pairoon Suthasupa, a lecturer in the Department of Agricultural Extension, Faculty of Agriculture, Chiangmai University, Thailand, a supplementary grant in support of his Ph.D. thesis research. Topic: "Some Factors Affecting the Expansion of Multiple Cropping in Northern Thailand."

Two grants were made to facilitate programs of research training for groups of graduate students. One, support of the "On-the-Job Training Program in the Rural Social Sciences" administered by the Research Institute in Social Sciences at Satya Wacana University at Salatiga, Indonesia; the other, an ad-hoc program on computer applications to the Institute of Agricultural Development and Administration at the University of the Philippines at Los Banos, The Philippines.

VISITING PROFESSORS

During the year, we responded to a request from the School of Economics, University of the Philippines at Diliman for a visiting

professor to teach in the fields of agricultural economics and quantitative methods. Dr. L. S. Venkataramanan, Senior Fellow, Agricultural Development and Rural Transformation Unit, Institute for Social and Economic Change, Bangalore, India, was appointed and joined the staff of the School of Economics as of October 1, 1977 for an initial six-month appointment from October 1, 1977 to March 31, 1978. At the request of the School of Economics, his appointment was extended to October 31, 1978.

PUBLICATIONS

The publications issued under the RRT Program are listed on p.16. They include issues of the *Teaching and Research Forum* series, which contain reprints of journal articles, seminar and workshop reports, and original essays; the *Papers in Research Methodology* series; and the newsletter of the Asian Regional Irrigation Network Series. Work is underway on the preparation of several monographs scheduled for publication in 1978.

FELLOWSHIPS

The Fellowship Program continues to be a major activity. In 1977 the Program greatly expanded with an intake of twenty new students, compared with the previous year's total of thirteen. At the beginning of 1977 there were twenty-four students in programs at nine different institutions. By the end of the year, thirty-four were continuing Master's degree programs and one a Ph.D. at twelve institutions in Asia and Australia. It is expected that thirty-nine new students will commence Master's and Ph.D. studies under A/D/C support in 1978.

In addition to IDRC funds, six students began their Master's degree studies under grants provided by The Ford Foundation for Bangladesh and USAID for Nepal. In December, 1977 a two-year grant (1978-1980) from the Australian Development Assistance Bureau was approved which provides support for A/D/C students studying in both Australian and Asian institutions.

Individual students in the Asian Fellowship Program are identified on p.17.

Research and Training Network



A. M. Weisblat

This year saw the completion of several activities undertaken over the last two years. Four major seminars were held: *Institutional Innovation and Reform: The Ladejinsky Legacy*, *Research in Rural Finance and Linkages of Agriculture and Education*, a seminar sponsored under the auspices of the Indo-American Commission involving U.S. and Indian specialists. Also, there was a major review of *Farm Management Teaching in the U.S. and its Relevance to Developing Countries*.

The question of *Cooperatives, Small Farmers and Rural Development* has been a subject of continuing interest. To gain a better perspective on the issue the RTN, in cooperation with the University of Wisconsin Land Tenure Center and the University Center for Cooperatives, has staged a series of meetings with major U.S. cooperative associations and federations to discuss the role that these institutions might play in economic and social development abroad. Meetings were held in the U.S. and in Africa, Asia and Latin America. Representatives from these regions reviewed the role of cooperatives in economic and social development and discussed the problems of external assistance and its effect on local cooperatives. One meeting was held in London to view the experience of other major donor countries in relation to providing assistance to cooperatives in the developing countries. In April 1978, a final seminar in the series will permit a review of the experiences and ideas that have emerged from the earlier meetings. A major objective of this session will be to define as specifically as possible ways in which U.S. cooperatives and those in other industrialized countries can contribute most effectively to programs for small farmers in the developing world.

An area of continuing interest relates to *Rural Women and Development*. This year's meeting focused on sex differentials and their effect on equity, employment, production and family welfare goals. Survey and census data suggest, for example, that female participation in rural labor markets in South and Southeast Asia differs substantially from male participation. It appears that particular policy



Participants at the Ladejinsky Symposium in Kyoto, October 1977, Drs. Keiki Owada, J. Mellor and Kenzo Hemmi.

choices and technological innovations affect male and female wage rates and employment opportunities differently. It is suggested that female work opportunities, wage rates and welfare have deteriorated even more than that of males or at least have failed to improve.

There has been little systematic review of the sex differential and no satisfactory analysis of why they occur or of their effects. Literature describing sex differentiation of wage rates and productive wage and non-wage work opportunities is largely anecdotal. There is beginning to emerge from this RTN endeavor a research agenda to clarify these questions.



RTN SEMINARS AND WORKSHOPS

Cooperatives, Small Farmers, and Rural Development	Washington, D.C., Columbus, Ohio, Bogota, Colombia, Manila, Philippines, London, England, Nairobi, Kenya, New York, N.Y., Madison, Wisconsin,	January 4, 5, 6. January 19 March 31—April 1 April 4—5 May 5—6 May 9—10 May 25 June 23
Linkages of Agriculture and Education, RTN Sponsored 8 participants, Task Force in Rural Economy, Joint A.U.F.S./RTN Farm Management Teaching, Research in Rural Finance, AAEA International Committee Symposium RTN support for 6 participants Experience and Potential for Group Farming in Asia, RTN partial support Social Context of Malnutrition Institutional Innovation and Reform: The Ladejinsky Legacy, Planning Session—Application of Household Time Allocation Studies to Policy Issues, Cooperatives, Small Farmers and Rural Development, Sector Analysis, RTN partial support Cooperatives, Small Farmers and Rural Development, Marine Resources Education, U. of Rhode Island, RTN partial support Rural Development Research, Harvard Institute for International Development, Non-Degree Training for LDC Students	Hyderabad, India, Holderness, N.H., East Lansing, Michigan San Diego, Cal., San Diego, Cal., Singapore State College, Penna. Kyoto, Japan New Delhi, India Madison, Wis. Cebu City, Philippines Washington, D.C. Kingston, R.I. Cambridge, Mass. New York, N.Y.	January 6—9 January 13—15 April 14—15 July 28—August 2 July 31—August 4 August 21—24 October 3—4 October 10—12 October 21—22 October 31—November 2 November 6—9 November 17 November 30—December 2 December 9—10 December 29

*International training in agricultural development continues to be a subject of concern and interest. In 1976 the RTN published a monograph on *International Training in Agricultural Economic Development*. This monograph and the workshops and seminars that led to its publication reflected an increasing awareness among university professors and development practitioners of a need to rethink training priorities, the role of the universities and the donor agencies supporting this activity and a concern for the place of the social sciences, particularly agricultural economics, in international development activities. There is also a recognition that U.S. federal funding, which has supported the bulk of the international training work, has declined and U.S. agricultural economists and other social scientists are turning their efforts increasingly to domestic issues.*

The monograph noted that conditions abroad are also changing:

"There is a growing restiveness among social scientists in developing countries. U.S. professors carrying out research in foreign countries or foreign scholars studying in U.S. universities are increasingly viewed as supporting a form of cultural imperialism. Meanwhile, in a number of foreign countries there are emerging quality centers of graduate training and economic components of international research institutes located in developing countries are being strengthened. A combination of these considerations led the Association to conclude that the 1970's is a good time to reflect on U.S. training and related research activities in the field of the economics of agriculture in the developing countries."

This situation remains relatively unchanged. The RTN and the Council will join with members of the American Association of Agricultural Economics in an on-going study of international training needs and strategies.

Publications

A/D/C Annual Report, 1976

A/D/C Newsletters No. 36, April 1977 and No. 37, October 1977.

Reprints

Shuh, G.E., A/D/C Reprint No. 29, "The New Macroeconomics of Agriculture, and Warley, T.K., Agriculture in International Economic Relations," February 1977. Reprinted from the *American Journal of Agricultural Economics*. Vol. 58, No. 5, December 1976, pp. 802-830.

Blue, R.N., Weaver, J.H., A/D/C Reprint No. 30, "A Critical Assessment of the Tanzanian Model," July 1977. Reprinted from *DSP Occasional Paper No. 1*, U.S. Agency for International Development.

Seminar Reports

Castillo, G.T., A/D/C Seminar Report No. 12, *The Changing Role of Women in Rural Societies: A Summary of Trends and Issues*, February 1977. Report on Seminar Sessions organized by the Fourth World Congress for Rural Sociology held in Torun, Poland, August 9-13, 1976.

De Tray, D.N., A/D/C Seminar Report No. 13, *Household Studies Workshop*, May 1977. Report on a seminar held by The Research and Training Network and the Regional Research and Training Program, in Singapore, August 1976.

Cummings Jr., R.W., A/D/C Seminar Report No. 14, *Minimum Information Systems for Agricultural Development in Low-Income Countries*, September 1977. Report on a seminar held at Oxford, England, December 1976.

Roumasset, J.A., A/D/C Seminar Report No. 15, *Risk and Uncertainty in Agricultural Development*, September 1977. Report on a conference held at the International Maize and Wheat Improvement Center, at El Batan, Mexico, March 9-13, 1976.

Staff Papers

75-5 Clay, E.J., "Equity and Productivity Effects of a Package of Technical Innovations and Changes in Social Institutions: Tubewells, Tractors and High Yielding Varieties." Reprinted from *Indian Journal of Agricultural Economics*, October-December 1975, Vol. XXX, No. 4.

75-6 Strout, A.M., "Some Definitional Problems with Multiple-Crop Diversification." Reprinted from *The Philippine Economic Journal*, Number Twenty Seven, Vol. XIV. Nos. 1 & 2, 1975.

75-7 Tjakrawerdaja, S., Collier, W.L., "Problems and Prospects of Increasing Cattle Exports from Nusa Tenggara Timur Province." Reprinted from *Agro-Ekonomika*, Vol. IV, No. 7, 1975.

76-1 Evenson, R.E., with a comment by Encarnacion, J., "On the New Household Economics." Reprinted from the *Journal of Agricultural Economics and Development*, Vol. VI, No. 1, January 1976.

76-2 Evenson, R.E., Kislav, Y., "A Stochastic Model of Applied Research." Reprinted from the *Journal of Political Economy*, Vol. 84, No. 2, 1976.

76-3 Swenson, C.G., "The Distribution of Benefits from Increased Rice Production in Thanjavur District, South India." Reprinted from *Indian Journal of Agricultural Economics*, January-March 1976, Vol. XXXI, No. 1.

76-4 White, B., "Population, Involution and Employment in Rural Java." Reprinted from *Development and Change*, 7 (1976), 267-290.

76-5 Clay, E.J., "Institutional Change and Agricultural Wages in Bangladesh." Reprinted from the *Bangladesh Development Studies*, Volume IV, No. 4, October 1976.

77-1 Ruttan, V.W., "Induced Innovation and Agricultural Development." Reprinted from *Food Policy*, Vol. 2, No. 3, August 1976.

Teaching and Research Forum

No. 5, March 1977, Oommen, T.K., "Problems of Building Agrarian Organizations in Kerala." Reprinted from *Sociologia Ruralis*, Vol. XVI, No. 3, 1976.

No. 6, May 1977, Lazaro, R.C., Taylor, D.C., Wickham, T.H., *Irrigation Systems in Southeast Asia: Policy and Management Issues*. Report on an ADC seminar held on June 22-25, 1976 at Los Banos, Laguna, Philippines, under the joint sponsorship of ADC, IRRI and SEARCA.

No. 7, May 1977, Ranit, L. C., Drilon Jr., J. D., Lorenzo P. Jose Rice Farm. A "Computerized" Japanese Type Rice Farming Enterprise. Agricultural Development Council, Inc., Tanglin P.O. Box 84, Sinagapore 10, Singapore.

No. 8, June 1977, Hasan, I., "Rice Marketing in Aceh." Reprinted from the *Bulletin of Indonesia Economic Studies*, Vol. XIII, No. 3, November 1976.

No. 9, September 1977, E. K. Ng and T. Y. Pee, *Innovations in Natural Rubber Technology: Some Malaysian Lessons*. Paper prepared for a seminar, "The Transfer of Technology—Its Significance to a Developing Society," organized by the Malaysian Economic Association in June 1976.

No. 10, September 1977, V. M. Dandekar, "Crop Insurance for Developing Countries," reprinted from *Economic and Political Weekly*, Vol. XI, No. 26, June 1976, pps. A61-A80.

No. 11, September 1977, Biggs, S. D., Yuan, C. K., Langham, M. R., *Agricultural Sector Analysis*. Report on a seminar held in Singapore on November 8-10, 1976.

No. 12, Shim, Y. K., "A Comparative Study of Fertilizer Marketing Systems in Asia," reprinted from *The Korean Economic Journal*, Vol. No. 2, June 1976, pp. 185-201.

A/D/C Sponsored Books

Arndt, T. M., Dalrymple, D. G., Ruttan, V. W., (eds.) *Resource Allocation and Productivity in National and International Agricultural Research*, 1977, 617 pp., University of Minnesota Press.

Dorner, P., (ed.) *Cooperative and Commune: Group Farming in the Economic Development of Agriculture*, 1977, 448 pp., The University of Wisconsin Press.

Collier, W. L., Hadikoesworo, H., Saropie, S., (eds.) *Income, Employment, and Food Systems in Javanese Coastal Villages*, 1977, 152 pp., Ohio University Center for International Studies.

Fellowships



Jane Harris



Grace M. Tongue

- + *Aboo Bakar bin Aliar*, Social Welfare Officer, Department of Social Welfare, Kuala Lumpur. B.S.W./M.A. studies in Social Work at the School of Social Welfare at Bandung.
- Marietta S. Adriano*, Assistant Professor, Department of Agricultural Engineering, Institute of Agricultural Engineering and Technology, College of Agriculture, University of the Philippines at Los Banos, College, Laguna. Ph.D. studies in Agricultural Economics at Purdue University.
- Afifuddin bin Haji Omar*, Head, Agricultural Division, Muda Agricultural Development Authority, Alor Star, Kedah. Ph.D. studies in Sociology at Cornell University.
- Ahmad bin Md Alim*, Departmental Manager for Livestock, Fisheries and Forestry Loans, Bank Pertanian Malaysia, Kuala Lumpur. M.S. studies in Agricultural Economics at the University of the Philippines at Los Banos.
- * *Md Mohsin Ali*, Lecturer, Department of Economics, University of Rajshahi, Rajshahi. M.A. studies in Economics at the University of the Philippines at Diliman.
- Muhammad Amin Aziz*, Senior Instructor, Social Economics Department, Institut Pertanian Bogor, Bogor. Ph.D. studies in Rural Sociology at Iowa State University.
- Myrna C. Antonio*, Research Assistant, Institute of Agricultural Development and Administration, University of the Philippines at Los Banos, College, Laguna. M.Ec. studies in Agricultural Economics at the University of New England, Armidale.
- Apisith Issariyanukula*, Junior Lecturer, Department of Agricultural Economics, Faculty of Economics and Business Administration, Kasetsart University, Bangkok. Ph.D. studies in Agricultural Economics at Washington State University.
- + *Mohammed Ariff bin Hussein*, Lecturer, Faculty of Resource Economics and Agribusiness, Universiti Pertanian Malaysia, Serdang, Selangor. Ph.D. studies in Agricultural Economics at Pennsylvania State University.
- Kamal Banskota*, Economist, Agricultural Projects Services Centre, Kathmandu. M.A. studies in Economics at the University of the Philippines at Diliman.
- * *Ma. Cynthia S. Bantilan*, Instructor, Department of Mathematics, Statistics and Physics, College of Sciences and Humanities, University of the Philippines at Los Banos, College, Laguna. Ph.D. studies in Economics at North Carolina State University.
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- * *Kyu-Seob Choi*, Research Assistant, Korea Development Institute, Seoul. M.S. studies in Agricultural Economics at the University of the Philippines at Los Banos.
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Vijaya Shrestha, Project Officer, Home and Panchayat Ministry, Kathmandu. Ph.D. studies in Rural Sociology at Mississippi State University.
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- * *Bishnu Bahadur Silwal*, Loan Officer, Agricultural Development Bank, Kathmandu. M.A. studies in Economics at Thammasat University, Bangkok.
- + *K. Nadarajah Singham*, Social Welfare Officer, Department of Social Welfare, Kuala Lumpur. B.S.W./M.A. studies in Social Work at the School of Social Welfare at Bandung.
- * *Jerome F. Sison*, Instructor, Department of Agricultural Economics, Institute of Agricultural Development and Administration, University of the Philippines at Los Banos, College, Laguna. Ph.D. studies in Agricultural Economics at the University of Manitoba, Winnipeg.
- * *Chelliah Sivayoganathan*, Assistant Lecturer, Department of Agricultural Economics and Farm Management, Faculty of Agriculture, University of Sri Lanka, Peradeniya. M. Ag. Studies in Agricultural Extension at the University of Queensland, St. Lucia, Brisbane.
- + *Tay Kim Chuan*, Assistant Project Officer, Farmers' Organization Authority, Kuala Lumpur. B.S. studies in Agribusiness at the Universiti Pertanian Malaysia, Serdang, Selangor.
- * *Ganesh Bahadur Thapa*, Assistant Plant Pathologist, Division of Plant Pathology, Khumaltar, Lalitpur. M.S. studies in Agricultural Economics at the University of the Philippines at Los Banos.
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- Severino B. Vergara*, Head, Agricultural Credit Division, Agricultural Credit and Cooperatives Institute, University of the Philippines at Los Banos, College, Laguna. Ph.D. studies in Agricultural Economics at Ohio State University.
- * *Kiatichai Vesdapunt*, Department of Agricultural Economics, Faculty of Economics and Business Administration, Kasetsart University, Bangkok. M.A. studies in Economics at the University of the Philippines at Diliman.
- + *Vivat Shotelersuk*, Faculty of Economics, Chulalongkorn University, Bangkok. Ph.D. studies in Agricultural Economics at the University of Hawaii.
- * *Vute Wangwacharakul*, Department of Agricultural Economics, Faculty of Economics and Business Administration, Kasetsart University, Bangkok. M.Ec. studies in Economics at the University of Malaya, Kuala Lumpur.
Gunawan Wiradi, Research Staff, Agro Economic Survey, Ministry of Agriculture, Bogor. M.A. studies in Sociology at the Universiti Sains Malaysia, Penang.
Suranimala Wirasinghe, District Agriculture Extension Officer, Extension Division, Department of Agriculture, Peradeniya. M.S. studies in Extension Education; non-degree studies in Agricultural Economics at the University of the Philippines at Los Banos.
Wiratno, Lecturer, Faculty of Economics, Diponegoro University, Semarang. M.A. studies in Economics at Thammasat University, Bangkok.
Wong Chee-Yoong, Agricultural Officer, Muda Agricultural Development Authority, Alor Star, Kedah. M.Ec. studies in Agricultural Economics at the University of New England, Armidale.
Chul Ho Yoo, Teaching Assistant, Department of Agricultural Economics, College of Agriculture, Seoul National University, Suweon. Ph.D. studies in Agricultural Economics at the University of California, Davis.

* Activated in 1977

+ Completed in 1977

1977 Grants

Agricultural Projects Services Centre
Kathmandu, Nepal

Equipment grant of photocopy
machine \$ 1,423.11

Dr. N. R. Deomampo
Department of Agricultural Economics
University of the Philippines
College, Laguna, Philippines

Final payment of 1976 grant in support
of visiting professorship at the
University of Minnesota 10,175.10

Dr. Cecilia Florencio
Department of Nutrition
University of the Philippines
Quezon City, Philippines

Travel grant for participation in RTN
seminar on nutrition at Pennsylvania
State University 1,109.00

Gadjah Mada University
Yogyakarta, Indonesia

Partial support of Ph.D. program in
agricultural economics 7,500.00

Dr. An-tien Hsieh
National Taiwan University
Taipei, Taiwan

Travel grant to return to Taiwan
following completion of Ph.D. program
at Harvard University 1,632.00

Mr. Kong Nam Hyun
Agricultural Economics Research Institute
Seoul, Korea

Travel grant to return to Korea following
completion of M.S. program at Ohio State
University 753.37

Dr. Mahmood Hasan Khan
Applied Economic Research Centre
University of Karachi
Karachi, Pakistan

Travel grant to return to Pakistan and
accept a position at the Centre 2,230.62

Dr. Mu-Keun Lee
Seoul National University
Suweon, Korea

Travel grant to return to Korea following
completion of Ph.D. program at the
University of Illinois 750.20

University of New England
Armidale, N.S.W., Australia

Support of post doctoral year for
Dr. I. J. Singh of Haranya Agricultural
University, India 27,086.77

Dr. Nimal Ranaweera
University of Sri Lanka
Peradeniya, Sri Lanka

Partial support of Ph.D. thesis at the
University of California, Davis 400.00

Silliman University
Dumaguete City, Philippines

Travel grant in partial support of
Mr. Eulalio Maturan's participation in
the Pacific Science Association Congress
in Bali 750.00

Silliman University
Dumaguete City, Philippines

Travel grant in partial support of
Dr. Lionel Chiong's participation in
the Pacific Science Association Congress
in Bali 350.00

Mr. Dae Hee Song
 Ministry of Agriculture & Fisheries
 Republic of South Korea
 Seoul, Korea

Travel grant to enable him to accept an
 assistantship at Pennsylvania State
 University 811.41

University of Sussex
 Brighton, England

Support of training period for two
 Indonesian students 10,000.00

Tribhuvan University
 Centre for Economic Development
 and Administration
 Kathmandu, Nepal

Final payment of 1976 equipment grant
 of one calculator 35.00

Professor Ngo Quoc Trung
 Institute of Agricultural Development
 and Administration
 University of the Philippines
 College, Laguna, Philippines

Grant in partial support of
 participation in the Fifth
 World Congress of Economics
 in Tokyo 293.70

Dr. Upali Nanayakkara
 National Institute of Management
 Colombo, Sri Lanka

Final support for completion of Ph.D.
 program at Michigan State University 4,167.91

Book Grants to Asian Institutions 4,814.06

Balance Sheet

December 31, 1977 and 1976

Assets

Unrestricted Funds

	1977	1976
Cash Including Certificates of Deposit		
1977—\$150,000		
1976—\$310,000	\$ 174,932	\$ 376,007
Marketable Securities at Cost or at Market at Date of Gift (at December 31, 1977 Market Quotations \$3,025,328 per Schedule Annexed)	2,428,558	2,731,366
Accounts Receivable		
U.S.A.I.D.	68,543	62,169
Ford Foundation	100,000	—
Other	1,099	331
Due from Restricted Funds	22,040	68,191
Pledges Receivable (Note 2)	718,000	675,000
Dividends Receivable and Interest Accrued	13,157	12,913
Advances, Deposits, and Prepaid Expenses	48,915	58,472
Deferred Charges	11,539	10,365
Total Assets	\$3,586,783	\$3,994,814

Liabilities and Fund Balances

	1977	1976
Liabilities		
Accounts Payable and Accrued Expenses	\$ 13,537	\$ 9,019
Federal Excise Tax	23,421	10,751
Deferred Income		
Deferred Support Received	—	75,000
Pledges Receivable (Note 2)	718,000	675,000
Total Liabilities	754,958	769,770
Fund Balances		
Designated by the Board of Trustees for Investment (Note 3)	2,590,618	3,043,937
Undesignated, Available for General Activities	241,207	181,107
Total Fund Balances	2,831,825	3,225,044
Total Liabilities and Fund Balances	\$3,586,783	\$3,994,814

Restricted Funds

	1977	1976
Cash	\$ 95,850	\$ 162,074
Accounts Receivable		
U.S.A.I.D.	89,315	60,093
Ford Foundation	4,996	7,370
International Development Research Centre	35,481	—
Pledges Receivable	2,117,000	1,322,000
Liabilities		
Due to Unrestricted Funds	\$ 22,040	\$ 68,191
Deferred Income		
Deferred Support Received	113,250	44,268
Pledges Receivable	2,117,000	1,322,000
Accrued Expenses	10,000	—
Total Liabilities	2,262,290	1,434,459
Fund Balances		
Program in Asia Research and Training Network	80,009	117,078
	343	-0-
Total Fund Balances	80,352	117,078
Total Liabilities and Fund Balances	\$2,342,642	\$1,551,537

See Notes to Financial Statements.

Statement of Support, Revenue and Expenses

For the years ended December 31, 1977 and 1976

	1977			1976
	Unrestricted	Restricted	Total	Total
Support and Revenue				
Support				
International Development Research Centre	\$ —	\$ 389,838	\$ 389,838	\$ 344,400
John D. Rockefeller 3rd	354,554	—	354,554	353,039
Rockefeller Brothers Fund	75,000	—	75,000	100,000
The Ford Foundation	200,000	96,126	296,126	305,870
U.S. Government—Agency for International Development	268,544	367,142	635,686	474,554
World Bank	—	20,000	20,000	—
Total Support	898,098	873,106	1,771,204	1,577,863
Revenue				
Investment Income	223,134	1,602	224,736	239,470
Realized Gain on Investments	28,672	—	28,672	58,326
World Bank—Reimbursement	—	—	—	20,668
Royalties	171	343	514	—
Other	5,561	—	5,561	9,682
Total Revenue	257,538	1,945	259,483	328,146
Total Support and Revenue	1,155,636	875,051	2,030,687	1,906,009
Expenses				
Program Services				
Program in Asia	1,383,095	623,372	2,006,467	1,835,859
Research and Training Network	30,404	288,405	318,809	226,903
Total Program Services	1,413,499	911,777	2,325,276	2,062,762
Supporting Services				
Management and General	135,356	—	135,356	110,702
Total Expenses	1,548,855	911,777	2,460,632	2,173,464
(Deficiency) of Expenses over Support and Revenue	\$ (393,219)	\$ (36,726)	\$ (429,945)	\$ (267,455)

See Notes to Financial Statements.

Statement of Changes in Unrestricted Fund Balances

For the years ended December 31, 1977 and 1976

	1977			1976
	Designated for Investments	Undesignated Funds	Total	Total
Balance January 1,	\$3,043,937	\$181,107	\$3,225,044	\$3,469,797
Increase (Decrease) in Funds:				
Realized Gain (Loss) on Investments	29,681	(1,009)	28,672	58,326
Operating (Deficit)		(421,891)	(421,891)	(303,079)
Excess (Deficiency) of Support and Revenue over Expenses	29,681	(422,900)	(393,219)	(244,753)
Intra-Fund Transfers	(483,000)	483,000	-0-	
Net Increase (Decrease)	(453,319)	60,100	(393,219)	(244,753)
Balance December 31,	\$2,590,618	\$241,207	\$2,831,825	\$3,225,044

Statement of Changes in Restricted Fund Balances

	1977			1976
	Program in Asia	Research and Training Network	Total	Total
Balance January 1,	\$ 117,078	\$ -0-	\$ 117,078	\$ 139,780
Increase (Decrease) in Funds				
Excess (Deficiency) of Support over Expenses	(37,069)	343	(36,726)	(22,702)
Balance December 31,	\$ 80,009	\$ 343	\$ 80,352	\$ 117,078

See Notes to Financial Statements.

Statement of Functional Expenses

For the years ended December 31, 1977 and 1976

	1977			1976		
	Program Services		Total	Supporting Services	Total Expenses	Total Expenses
	Program in Asia	Research and Training Network		Management and General		
Salaries and Maintenance	\$ 767,071	\$ 90,647	\$ 857,718	\$ 30,232	\$ 887,950	\$ 767,833
Employee Health and Retirement Benefits	95,538	16,056	111,594	3,651	115,245	103,456
Payroll Taxes	17,702	3,111	20,813	2,073	22,886	28,882
Total Salaries and Related Expenses	880,311	109,814	990,125	35,956	1,026,081	900,171
Professional Fees and Contract Service Payments	4,673	7,300	11,973	21,478	33,451	21,836
Office Supplies and Expense	14,409	2,295	16,704	1,530	18,234	21,386
Telephone and Telegraph	12,819	2,530	15,349	1,687	17,036	17,680
Postage and Shipping	7,362	1,351	8,713	901	9,614	10,069
Occupancy	49,466	9,893	59,359	6,595	65,954	79,336
Transportation	33,536	6,169	39,705	4,112	43,817	37,243
Conferences, Seminars, Meetings	13,451	175,663	189,114	33,322	222,436	181,917
Educational Materials, Publications and Printing	71,866	—	71,866	27,248	99,114	71,183
Investment Advisors and Fees	10,381	—	10,381	—	10,381	11,120
Leasehold Improvements and Equipment	5,854	1,171	7,025	780	7,805	25,330
Equipment Maintenance and Rental	5,778	1,156	6,934	770	7,704	10,907
Insurance	2,878	576	3,454	383	3,837	2,457
Awards and Grants	74,282	—	74,282	—	74,282	58,670
Graduate Fellowships (Note 5)	279,336	—	279,336	—	279,336	286,391
Graduate Assistantships	165,440	—	165,440	—	165,440	159,583
Visiting Professors	23,609	—	23,609	—	23,609	21,062
Research and Training	322,454	—	322,454	—	322,454	221,778
Short Term Specialists	—	—	—	—	—	17,924
Moving Expense	3,378	675	4,053	450	4,503	3,704
Federal Excise Tax	23,421	—	23,421	—	23,421	11,155
Other	1,763	216	1,979	144	2,123	2,562
Total	\$2,006,467	\$ 318,809	\$2,325,276	\$ 135,356	\$2,460,632	\$2,173,464

See Notes to Financial Statements.

Schedule of Marketable Securities

December 31, 1977

	Shares or Principal Amount	Book Amounts	Market Quotations
Designated by the Board of Trustees for Investment:			
Common Stocks:	Shares		
Allegheny Power Systems	9,000	\$ 158,445	\$ 182,250
American Cyanamid	5,000	98,371	133,750
Beneficial Corporation	6,000	171,618	126,750
Central and Southwest Corporation	8,000	131,797	128,000
Eastman Kodak Company	1,600	26,816	81,800
Exxon Corporation	3,000	113,408	144,375
General Motors Corp.	2,500	166,289	157,187
I.B.M. Corporation	1,600	58,394	437,600
Kellogg Company	5,000	80,254	121,875
Pennzoil Company	5,000	151,615	146,875
Pfizer Incorporated	5,000	216,974	136,875
R. J. Reynolds Industries	1,000	68,068	59,250
Standard Oil Company of California	4,000	105,500	155,500
Standard Oil Company of Indiana	3,000	126,563	148,500
United Technologies Corporation	4,300	79,608	154,263
Total Common Stocks		1,753,720	2,314,850
Bonds:			
Pacific Gas & Electric Co., 1st and Ref. Mtge. Reg'd. 9.85% Due June 1, 1982	\$250,000	250,000	265,000
Abbot Labs, Deb., Reg'd. 9.2% Due October 15, 1999	150,000	150,563	163,500
Exxon Pipeline Co., Gtd. Deb., Reg'd. 9% Due October 15, 2004	150,000	149,437	157,875
Total Bonds		550,000	586,375
Notes:			
United States Treasury Note 6.875% Due May 15, 1980	100,000	100,219	99,250
Short Term Investments:			
United States Treasury Bills Due February 9, 1978	25,000	24,619	24,853
Total Marketable Securities		\$2,428,558	\$3,025,328

Notes to Financial Statements

December 31, 1977

1. Significant accounting policies of the Council are summarized below:

A. Securities are recorded at cost, if purchased, or market value at date of gift if received as a contribution.

B. Expenditures for furniture and equipment are not capitalized and depreciated, but are charged to expense as incurred. Such expenditures were approximately \$7,800. in 1977.

C. Pledges of support for future operations have been recognized in the accompanying balance sheet and classified as pledges receivable and deferred income. The recognition of pledges receivable in the balance sheet had no effect on the results of operations for 1977.

D. The Council has a non contributory retirement plan covering substantially all of its employees. Total expense for the year under this plan was approximately \$89,500. The Council's policy is to fund pension cost currently.

E. Support received during the year but designated for operations in a subsequent year has been recognized as deferred income in the accompanying balance sheet.

2. Pledges receivable are due for the respective funds in subsequent years as follows:

Year	Current Funds	
	Unrestricted	Restricted
1978	\$560,000	\$1,177,000
1979	158,000	750,000
1980	—	190,000
	<u>\$718,000</u>	<u>\$2,117,000</u>

3. Funds designated by the Board of Trustees for investment (\$2,590,618) consist of:

Certificate of Deposit	\$ 150,000
Marketable Securities	2,428,558
Cash	12,060

4. The Council has a lease agreement for office space at an annual rental of approximately \$30,000. expiring December 31, 1980.

5. Fellowships are granted by the Council for a period of 12 months, subject to possible, but not automatic, renewal. The unrestricted fund had a commitment of \$240,000. at December 31, 1977 for unexpired portions of annual awards.

Accountants' Opinion

Mr. Donald H. McLean, Jr.
Chairman of the Board of Trustees,
The Agricultural Development Council, Inc.

We have examined the balance sheet of The Agricultural Development Council, Inc., including the schedule of marketable securities as of December 31, 1977 and 1976 and the related statements of support, revenue and expenses, functional expenses, and changes in unrestricted and restricted fund balances for the years then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion the accompanying financial statements examined by us present fairly the financial position of The Agricultural Development Council, Inc. at December 31, 1977 and 1976 and the results of its operations and changes in fund balances for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

Danahar and Scott

March 21, 1978

Current Council Field Staff

Name	Office	Mailing Address	Cable
Dr. William M. Bateson Associate	Department of Economics Social Science Building University of Wisconsin Madison, Wisconsin 53706		
Dr. Hans P. Binswanger Associate	Economic Growth Center Yale University P.O. Box 1987, Yale Sta. New Haven, Connecticut 05620		
Dr. Veit Burger Specialist	Agricultural Projects Services Centre Ministry of Food, Agriculture and Irrigation Kathmandu, Nepal	P.O. Box 1312 Kathmandu, Nepal	AGRIDEVEL KATHMANDU
Dr. Edward J. Clay Associate	Bangladesh Agricultural Research Council 130/C Dhanmardi R.A., Road 1, Dacca-5 Bangladesh	P.O. Box 98 Ramna Dacca 2, Bangladesh	FORDFOUND DACC
Dr. William L. Collier Associate	Department of Social Ekonomi Institut Pertanian Bogor Jalan Otto Iskandardinata Bogor, Indonesia	P.O. Box 62 Bogor, Indonesia	AGRIDEVEL BOGOR
Ms. Jane Harris Fellowship Officer	Regional Research & Training Program RELC International House 30 Orange Grove Road Singapore 10	Tanglin P.O. Box 84 Singapore 10	AGRIDEVEL SINGAPORE
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